

Access DB# 85272
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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Wade W. W. Examiner #: 77604 Date: 1/27/03
Art Unit: 1648 Phone Number 308-8294 Serial Number: 09/670105
Mail Box and Bldg/Room Location: 8007 Results Format Preferred (circle): PAPER DISK E-MAIL
8E12

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Nucleotide Sequences Derived...

Inventors (please provide full names): Moncany et al.

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

align sequences with electropher.

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
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jan.delaval@uspto.gov

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	Type of Search	Vendors and cost where applicable
Searcher: <u>Car</u>	NA Sequence (#) <input checked="" type="checkbox"/>	STN <input checked="" type="checkbox"/>
Searcher Phone #: <u>4458</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/27/03</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link _____
Date Completed: <u>1/27/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems <input checked="" type="checkbox"/>
Clerical Prep Time: <u>15</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>44</u>	Other _____	Other (specify) _____

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66						-5	-10	-5
67								-15
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GENALIGN - Multiple Sequence Alignment Program
Release 5.4

Mon 27 Jan 103 18:19:43-PSR

Solution Parameters:

Nucleic Alphabet = Identity
Output Line Length = 80
Compress = Off
Histogram = Off
Randomization = Off
AMINO-Res-length = 2
Deletion-weight = 5.00
Length-factor = 0
Matching-weight = 1.00
Nucleic-Res-length = 4
Spread-factor = 50

Clustered order of selected sequences:

8.	US-09-670-105-8	(1-17)
9.	US-09-670-105-9	(1-17)
1.	US-09-670-105-1	(1-18)
2.	US-09-670-105-2	(1-18)
57.	US-09-670-105-57	(1-19)
59.	US-09-670-105-59	(1-21)
35.	US-09-670-105-35	(1-20)
34.	US-09-670-105-34	(1-20)
33.	US-09-670-105-33	(1-20)
18.	US-09-670-105-18	(1-19)
17.	US-09-670-105-17	(1-19)
16.	US-09-670-105-16	(1-19)
56.	US-09-670-105-56	(1-19)
4.	US-09-670-105-4	(1-19)
3.	US-09-670-105-3	(1-19)
5.	US-09-670-105-5	(1-19)
44.	US-09-670-105-44	(1-19)
14.	US-09-670-105-14	(1-19)
15.	US-09-670-105-15	(1-19)
55.	US-09-670-105-55	(1-19)
7.	US-09-670-105-7	(1-20)
6.	US-09-670-105-6	(1-20)
10.	US-09-670-105-10	(1-20)
11.	US-09-670-105-11	(1-20)
13.	US-09-670-105-13	(1-20)
12.	US-09-670-105-12	(1-20)
32.	US-09-670-105-32	(1-20)
31.	US-09-670-105-31	(1-20)
36.	US-09-670-105-36	(1-21)
19.	US-09-670-105-19	(1-21)
58.	US-09-670-105-58	(1-21)
45.	US-09-670-105-45	(1-21)
60.	US-09-670-105-60	(1-22)
41.	US-09-670-105-41	(1-22)
20.	US-09-670-105-20	(1-22)
43.	US-09-670-105-43	(1-22)
38.	US-09-670-105-38	(1-23)
30.	US-09-670-105-30	(1-22)
29.	US-09-670-105-29	(1-22)
42.	US-09-670-105-42	(1-22)
62.	US-09-670-105-62	(1-23)
64.	US-09-670-105-64	(1-23)
67.	US-09-670-105-67	(1-23)
25.	US-09-670-105-25	(1-23)
26.	US-09-670-105-26	(1-23)
63.	US-09-670-105-63	(1-23)
48.	US-09-670-105-48	(1-23)

37.	US-09-670-105-37	(1-23)
27.	US-09-670-105-27	(1-23)
28.	US-09-670-105-28	(1-23)
39.	US-09-670-105-39	(1-24)
66.	US-09-670-105-66	(1-24)
24.	US-09-670-105-24	(1-24)
23.	US-09-670-105-23	(1-24)
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22.	US-09-670-105-22	(1-24)
50.	US-09-670-105-50	(1-25)
53.	US-09-670-105-53	(1-26)
68.	US-09-670-105-68	(1-26)
47.	US-09-670-105-47	(1-26)
52.	US-09-670-105-52	(1-26)
51.	US-09-670-105-51	(1-26)
49.	US-09-670-105-49	(1-25)
65.	US-09-670-105-65	(1-25)
46.	US-09-670-105-46	(1-26)
54.	US-09-670-105-54	(1-26)
61.	US-09-670-105-61	(1-27)
40.	US-09-670-105-40	(1-27)

Needleman-Wunsch Alignment: (listed in Clustered order)

US-09-670-	1	TG CATGCTGC	TTGATG	8
US-09-670-	1	TG CATAGCTGC	CTGGTG	9
US-09-670-	1	TGGGCGCCGAAC	AGGAGC	1
US-09-670-	1	TGGGCGCTGAC	AGGAGC	2
US-09-670-	1	TTCATTCCTTC	TGCG Tgg	57
US-09-670-	1	TCCAGTCCCC	TTTCCTTC	59
US-09-670-	1	ACTGCCCTTC	CCCTTCCA	35
US-09-670-	1	ACTGCCCTTC	TCCTTCCA	34
US-09-670-	1	ACTGCCCTTC	CCCTTCCA	33
US-09-670-	1	CCACATTTCCA	GCACCCCT	18
US-09-670-	1	CCACATTTCCA	GCAGCCCT	17
US-09-670-	1	CCACATTTCCA	GCATCCCT	16
US-09-670-	1	CCAGCAAGAAA	GAATGAA	4
US-09-670-	1	GGCCCGGCGGAAA	GAAGAAA	3
US-09-670-	1	GGCCAGGGGAAA	GAAGAAA	3
US-09-670-	1	GGCCAGGGGAAA	GAAGAAA	3
US-09-670-	1	AGTCAGATCCA	GAGGAGA	44
US-09-670-	1	AGGCTGTGAAA	LTGTGG	14
US-09-670-	1	AGGGCTGTGAAA	GTCGG	15
US-09-670-	1	TATTAACAAGATG	GTCGG	7
US-09-670-	1	TGCCACACATCATGTTTAA		6
US-09-670-	1	TGCCCATCAAAATGTTTAA		10
US-09-670-	1	CTTGCATGCGTCGCTGATG		7
US-09-670-	1	CTTGCATGCGTCGCTGATG		7

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GENALIGN - Multiple Sequence Alignment Program
Release 5.4

Mon 27 Jan 103 18:16:28-PSR

Solution Parameters:

Nucleic Alphabet = Identity
Output Line Length = 80
Compress = Off
Histogram = Off
Randomization = Off
AMINO-Res-Length = 2
Deletion-Weight = 5.00
Length-Factor = 0
Matching-Weight = 1.00
NUCLEIC-Res-Length = 4
Spread-Factor = 50

Clustered order of selected sequences:

61. US-09-670-105-61 (1-27)
40. US-09-670-105-40 (1-27)
53. US-09-670-105-53 (1-26)
68. US-09-670-105-68 (1-26)
47. US-09-670-105-47 (1-26)
52. US-09-670-105-52 (1-26)
51. US-09-670-105-51 (1-26)
54. US-09-670-105-54 (1-26)
46. US-09-670-105-46 (1-26)
23. US-09-670-105-23 (1-24)
24. US-09-670-105-24 (1-24)
21. US-09-670-105-21 (1-24)
22. US-09-670-105-22 (1-24)
66. US-09-670-105-66 (1-24)
39. US-09-670-105-39 (1-24)
49. US-09-670-105-49 (1-25)
50. US-09-670-105-50 (1-25)
65. US-09-670-105-65 (1-25)
48. US-09-670-105-48 (1-23)
37. US-09-670-105-37 (1-23)
27. US-09-670-105-27 (1-23)
28. US-09-670-105-28 (1-23)
64. US-09-670-105-64 (1-23)
62. US-09-670-105-62 (1-23)
67. US-09-670-105-67 (1-23)
25. US-09-670-105-25 (1-23)
26. US-09-670-105-26 (1-23)
38. US-09-670-105-38 (1-23)
63. US-09-670-105-63 (1-23)
20. US-09-670-105-20 (1-22)
43. US-09-670-105-43 (1-22)
29. US-09-670-105-29 (1-22)
30. US-09-670-105-30 (1-22)
41. US-09-670-105-41 (1-22)
60. US-09-670-105-60 (1-22)
42. US-09-670-105-42 (1-22)
45. US-09-670-105-45 (1-21)
58. US-09-670-105-58 (1-21)
19. US-09-670-105-19 (1-21)
36. US-09-670-105-36 (1-21)
31. US-09-670-105-31 (1-20)
32. US-09-670-105-32 (1-20)
11. US-09-670-105-11 (1-20)
10. US-09-670-105-10 (1-20)
34. US-09-670-105-34 (1-20)
33. US-09-670-105-33 (1-20)

35. US-09-670-105-35 (1-20)
7. US-09-670-105-7 (1-20)
6. US-09-670-105-6 (1-20)
12. US-09-670-105-12 (1-20)
13. US-09-670-105-13 (1-20)
55. US-09-670-105-55 (1-19)
44. US-09-670-105-44 (1-19)
15. US-09-670-105-15 (1-19)
14. US-09-670-105-14 (1-19)
56. US-09-670-105-56 (1-19)
17. US-09-670-105-17 (1-19)
16. US-09-670-105-16 (1-19)
18. US-09-670-105-18 (1-19)
3. US-09-670-105-3 (1-19)
5. US-09-670-105-5 (1-19)
4. US-09-670-105-4 (1-19)
57. US-09-670-105-57 (1-19)
1. US-09-670-105-1 (1-18)
2. US-09-670-105-2 (1-18)
8. US-09-670-105-8 (1-17)
9. US-09-670-105-9 (1-17)

Region Alignment: (Listed in Clustered order)

US-09-670- 1 gATtAtGgAaAcAgAtGcAgGtGtAT 61
US-09-670- 1 tATGgAGGAggAaAgAgAtGtGtATGt 61
US-09-670- 1 ATGGGTGGCAAGTGTGTCAAAAAGTAG 53
US-09-670- 1 ATGGGTGCAAAATGTGTCAAAAAGTAG 68
US-09-670- 1 GGGGcAcAaATATGtAtGtGtGtATGtGt 47
US-09-670- 1 GGGTtGtGtGtGtGtGtGtGtGtGtGtGt 52
US-09-670- 1 GTGCTTctGtGtGtGtGtGtGtGtGtGtGtGt 51
US-09-670- 1 CTACTTtGtGtGtGtGtGtGtGtGtGtGtGt 54
US-09-670- 1 CCAATtGtGtGtGtGtGtGtGtGtGtGtGt 46
US-09-670- 1 TTGgGcCATTCATTCCTGCTGCTTTA 23
US-09-670- 1 TTGtGcCATTCATTCCTGCTGCTTTA 24
US-09-670- 1 TTAAGCCAGGAATGATGATGtGtGtGtGtGt 21
US-09-670- 1 TTAAGCCAGGAATGATGATGtGtGtGtGtGt 22
US-09-670- 1 AGCAGAGAcAGTGGcCAATgAgAg 66
US-09-670- 1 AGCtGAGAcAGcAGGAgAcTtGcCA 39
US-09-670- 1 AtcCTcAGAGgAGgAcCCAGAAATr 49
US-09-670- 1 AatTCTGgTcGtGtGtGtGtGtGtGtGtGtGtGt 50
US-09-670- 1 gTaaGtAGTAcAtGtAtGtGtGtGtGtGtGtGtGt 65
US-09-670- 1 AatGcAGcTcTAgcAGAGAGAGa 48
US-09-670- 1 ATATAcCTAgAaAGGAAGAGAg 31
US-09-670- 1 TTCTGTATGTCATTTGACAGTCCA 27
US-09-670- 1 TTCTGTATGTCATTTGACAGTCCA 28
US-09-670- 1 cTtAGCTcCTcTAAAGGCTTA 64
US-09-670- 1 gCAGAcCAcTAAATcATcTGTAT 62

US-09-670-	1	actacagacatcaatattccaa	67
US-09-670-	1	tggacatgctcaatgacatcagaa	25
US-09-670-	1	tggacatgctcaatgacatcagaa	26
US-09-670-	1	cccttcccttttcttaagtaatc	38
US-09-670-	1	tacagatgaattagttgctctgc	63
US-09-670-	1	tccatgttcttgctctccctctg	20
US-09-670-	1	cccttgcgtccatcatgcccagtat	43
US-09-670-	1	catgggtaccagcacacaagaag	29
US-09-670-	1	cctttgtgtgctgtaaccatag	30
US-09-670-	1	tacgacttatttcccttccttc	41
US-09-670-	1	aaagtcctccacagcgaaatcccc	60
US-09-670-	1	aaagcaagggaatattagtgcta	42
US-09-670-	1	ccctgagggggagagagaagga	45
US-09-670-	1	aaaagaaaaggggggacttga	58
US-09-670-	1	aaaagaaaaggggggacttga	58
US-09-670-	1	gataagatggaacaagcccacag	19
US-09-670-	1	agaaactcttcggggcccgctg	36
US-09-670-	1	tggaaagctgaaggggacag	31
US-09-670-	1	tggaaagctgaaggggacag	32
US-09-670-	1	ctttgcattgctctcttgatg	11
US-09-670-	1	ctttgcattgctctcttgatg	10
US-09-670-	1	actgcccccttctcctttcca	34
US-09-670-	1	actgcccccttctcctttcca	33
US-09-670-	1	actgcccccttctcctttcca	35
US-09-670-	1	tggccacacgactaattgtttta	7
US-09-670-	1	tggccacacgactaattgtttta	6
US-09-670-	1	catcaagcagccctttgcaag	12
US-09-670-	1	catcaagcagccctttgcaag	13
US-09-670-	1	atgtcagattccacgggaga	44
US-09-670-	1	atgtcagattccacgggaga	45
US-09-670-	1	aggcgctgttggaagggtgg	15
US-09-670-	1	aggcgctgttggaagggtgg	14
US-09-670-	1	ccagcagaagaataatgaa	56
US-09-670-	1	ccacattttccagcagacct	17
US-09-670-	1	ccacattttccagcagacct	16
US-09-670-	1	ccacattttccagcagacct	18
US-09-670-	1	ggccagagggaagaaaaa	3

[illegible]

Alignment score = -375.00

Scoring matrix:

[illegible]

27	63	1	-25	-25	-21	-25	-20	-20	-10	-10	-10	-10	-10	-15
28	64	2	-25	-25	-21	-25	-20	-20	-6	-6	-10	-10	-10	-15
29	65	3	-20	-20	-20	-20	-15	-15	-5	-5	-5	-5	-5	-10
30	66	4	-20	-20	-20	-20	-15	-15	-5	-5	-5	-5	-5	-10
31	67	5	-20	-20	-20	-20	-15	-15	-5	-5	-5	-5	-5	-10
32	68	6	-15	-15	-15	-15	-10	-10	6	5	5	4	4	-5
33		7	-15	-10	-15	-15	-10	-10	5	4	6	7	6	-5
34		8	-30	-30	-26	-26	-25	-19	-15	-15	-15	-15	-15	-20
35		9	-30	-30	-30	-30	-25	-21	-15	-15	-15	-15	-15	-20
36		10	-15	-15	-15	-15	-10	-5	3	3	6	7	6	-5
37		11	-15	-15	-11	-11	-10	-4	2	2	4	5	4	-5
38		12	-15	-15	-15	-15	-5	-10	6	5	3	3	4	-5
39		13	-11	-11	-15	-15	-4	-10	4	3	2	3	2	-5
40		14	-14	-14	-20	-20	-15	-15	-5	-5	-5	-5	-5	-10
41		15	-14	-14	-20	-20	-15	-15	-5	-5	-5	-5	-5	-10
42		16	-20	-20	-20	-20	-7	-15	-5	-5	-5	-5	-5	-10
43		17	-20	-20	-20	-20	-7	-15	-5	-5	-5	-5	-5	-10
44		18	-20	-20	-20	-20	-6	-11	-5	-5	-5	-5	-5	-10
45		19	-10	-10	-10	-10	-5	2	-5	-5	-5	-5	-5	6
46		20	-5	-5	-5	-5	3	7	-10	-10	-10	-10	-10	1
47		21	2	2	-5	-5	-10	-10	-20	-20	-20	-20	-20	-15
48		22	1	1	-5	-5	-10	-10	-20	-20	-20	-20	-20	-15
49		23	-5	-5	2	2	-10	-10	-20	-20	-20	-16	-14	-15
50		24	-5	-5	1	1	-10	-10	-20	-20	-20	-16	-14	-15
51		25		22	6	5	-5	-5	-11	-11	-8	-8	-7	-10
52		26			6	5	-5	-5	-11	-11	-8	-7	-8	-10
53		27				5	-5	-5	-11	-11	-8	-7	-8	-10
54		28				22	-5	-5	-8	-9	-15	-11	-15	-10
55							-5	-5	-15	-15	-11	-11	-15	-10
56							-5	-5	-15	-15	-11	-11	-15	-10
57							-5	-5	-15	-15	-11	-11	-15	-10
58							-5	-5	-15	-15	-11	-11	-15	-10
59							-5	-5	-15	-15	-11	-11	-15	-10
60							-5	-5	-15	-15	-11	-11	-15	-10
61							-5	-5	-15	-15	-11	-11	-15	-10
62							-5	-5	-15	-15	-11	-11	-15	-10

33	-19	-15	-19	-23	-22	-20	-1	1	1	-1	3	0
34	-20	-15	-18	-24	-22	-20	-2	0	2	-1	4	0
35	-19	-14	-18	-24	-23	-20	-2	0	1	-1	3	0
36	-11	-12	-17	-16	-15	-18	-3	-5	-2	7	3	5
37	0	-2	-6	-2	-5	-6	-7	-7	-13	-1	-7	3
38	-2	0	-2	-6	-6	-6	-14	-13	-7	-7	-1	1
39	1	1	-1	-1	-1	-1	-15	-15	-20	-2	-7	1
40	2	-1	0	3	4	0	-24	-25	-34	-17	-24	-16
41	-7	-4	-10	-13	-13	-10	-8	-12	-1	-2	5	3
42	-4	-7	-13	-10	-10	-13	-6	-1	-12	5	-2	7
43	-6	-4	-9	-9	-11	-4	-7	-8	-6	-1	4	4
44	-17	-17	-23	-22	-23	-26	7	3	5	-3	-6	-7
45	-7	-11	-18	-12	-14	-18	-1	1	-6	9	2	1
46	-2	2	8	5	4	9	-23	-25	-23	-18	-13	-7
47	2	-2	5	8	9	4	-22	-23	-25	-13	-18	-13
48	0	1	-6	-3	-4	-8	-9	-10	-12	-1	-7	4
49		10	7	5	6	2	-22	-20	-25	-10	-12	-5
50			5	7	2	6	-22	-24	-20	-12	-10	-9
51				10	7	7	-29	-28	-25	-20	-18	-8
52					7	7	-26	-25	-28	-18	-20	-10
53						6	-24	-25	-27	-15	-18	-9
54							-27	-27	-25	-18	-15	-12
55							3	7	0	0	-5	-6
56								0	0	0	-4	-7
57									-4	0	-11	
58										4	4	
59												0
60												
61												
62												
63												
64												
65												
66												
67												
68												
1	-33	-17	-17	-15	-26	-20	-18	-29				
2	-33	-17	-17	-15	-25	-19	-17	-28				
3	-29	-14	-15	-13	-21	-15	-12	-24				
4	-31	-13	-16	-11	-21	-16	-12	-24				
5	-29	-13	-14	-13	-20	-15	-11	-24				
6	-26	-5	-5	-5	-15	-12	-5	-22				
7	-26	-5	-5	-4	-16	-12	-6	-21				
8	-39	-22	-19	-23	-31	-23	-23	-33				
9	-38	-22	-19	-23	-31	-21	-23	-34				
10	-23	-8	-8	-6	-16	-11	-9	-19				
11	-22	-7	-6	-7	-16	-8	-8	-19				
12	-23	-8	-8	-7	-13	-10	-4	-20				
13	-22	-6	-7	-6	-14	-9	-4	-19				
14	-31	-12	-10	-11	-22	-13	-12	-21				
15	-30	-13	-10	-11	-22	-14	-13	-21				
16	-32	-10	-12	-10	-18	-17	-7	-28				
17	-31	-11	-11	-9	-18	-17	-8	-28				
18	-32	-11	-12	-10	-19	-18	-8	-28				
19	-18	-4	0	-2	-9	-5	1	-15				
20	-17	3	5	1	-6	-3	1	-12				
21	-5	2	7	3	5	7	6	-2				
22	-5	1	7	2	6	7	5	-1				
23	-6	7	2	6	4	4	3	-1				
24	-7	7	1	6	3	3	3	-1				
25	-9	3	4	7	1	6	9	-1				
26	-9	4	5	7	1	5	9	-1				
27	-7	4	3	7	1	3	2	-6				
28	-8	5	3	7	2	3	3	-7				
29	-14	2	0	2	-4	-1	2	-8				
30	-15	0	2	4	-7	-4	3	-10				
31	-22	-7	-5	-8	-15	-10	-8	-19				
32	-21	-6	-6	-7	-15	-10	-7	-19				
33	-28	-5	-7	-4	-16	-12	-3	-22				
34	-28	-4	-8	-5	-17	-12	-3	-22				

